

ABSTRACT OF THE DISCLOSURE

An electric caliper assembly for a brake system is provided. The electric caliper assembly includes a housing defining a bore with a bridge extending therefrom, a first and a second friction element and a brake rotor disposed under the bridge, a piston having a flat outer surface for engaging the first friction element, an
5 electric motor connected to a ballscrew mechanism for applying an axial load to the piston, a cap connected to the ball screw mechanism, and a universal connection between a spherical surface of the piston and a complimentary spherical surface of the cap for allowing a swiveling movement of the piston relative to the assembly. This swiveling movement allows the piston to engage the first friction element
10 perpendicularly so that the load may be transmitted from the piston to the first friction element over the entire surface of the piston, maximizing the efficiency of the assembly.